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Waste to Energy – Nov. 10, 2010

Environmental Stewardship Training

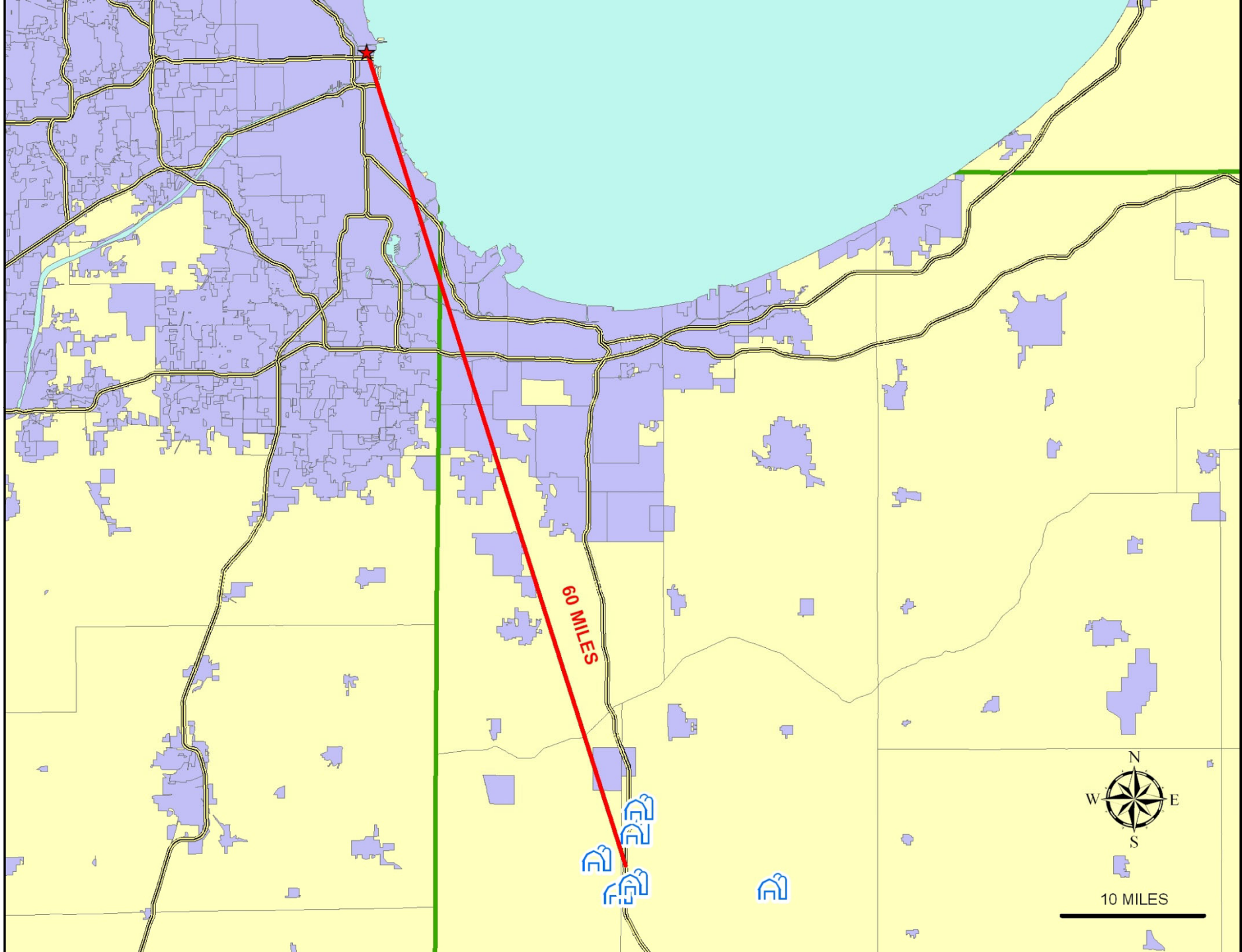
Waste To Energy: Anaerobic Digestion

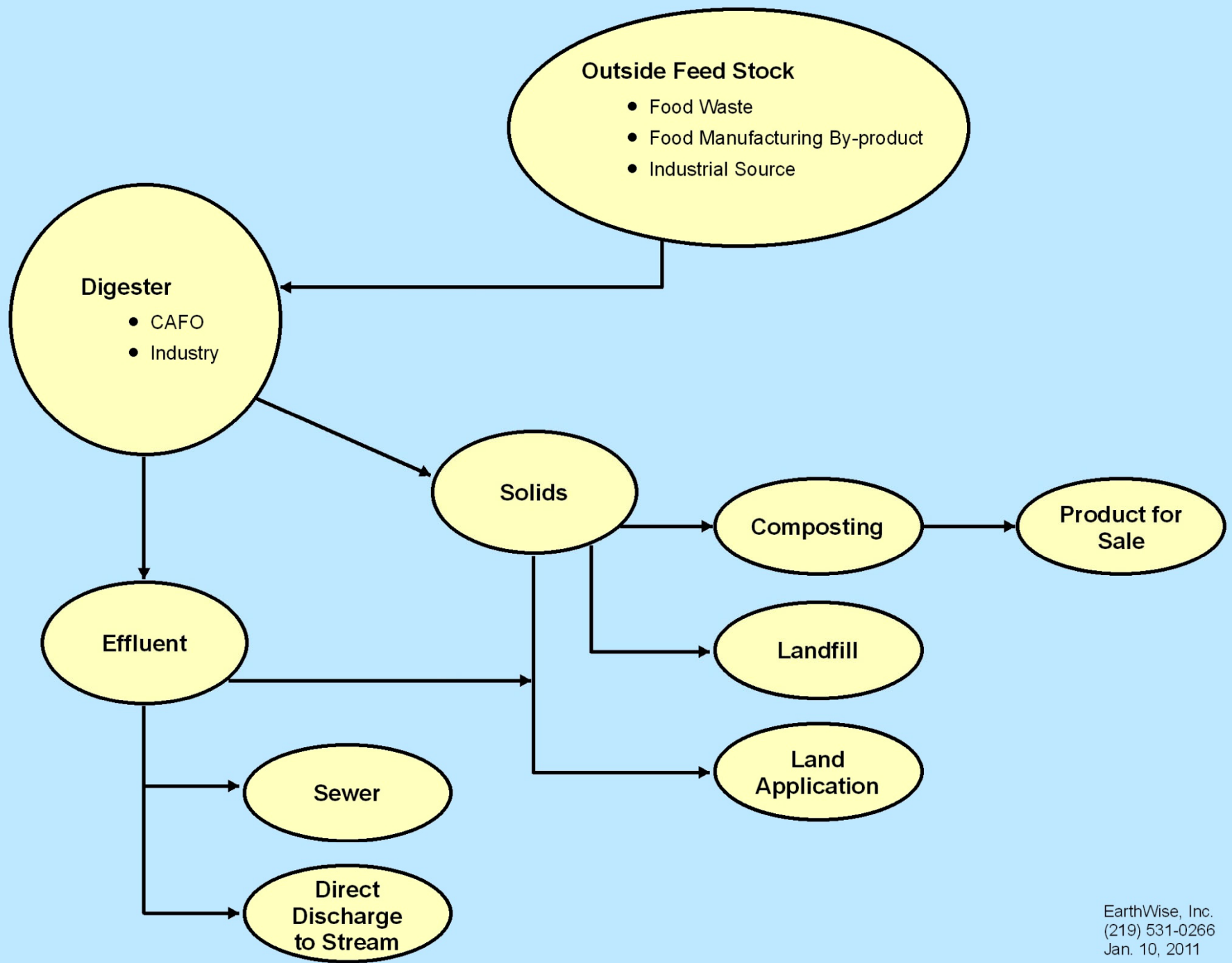
Making the Most of Your Waste - Lessons Learned

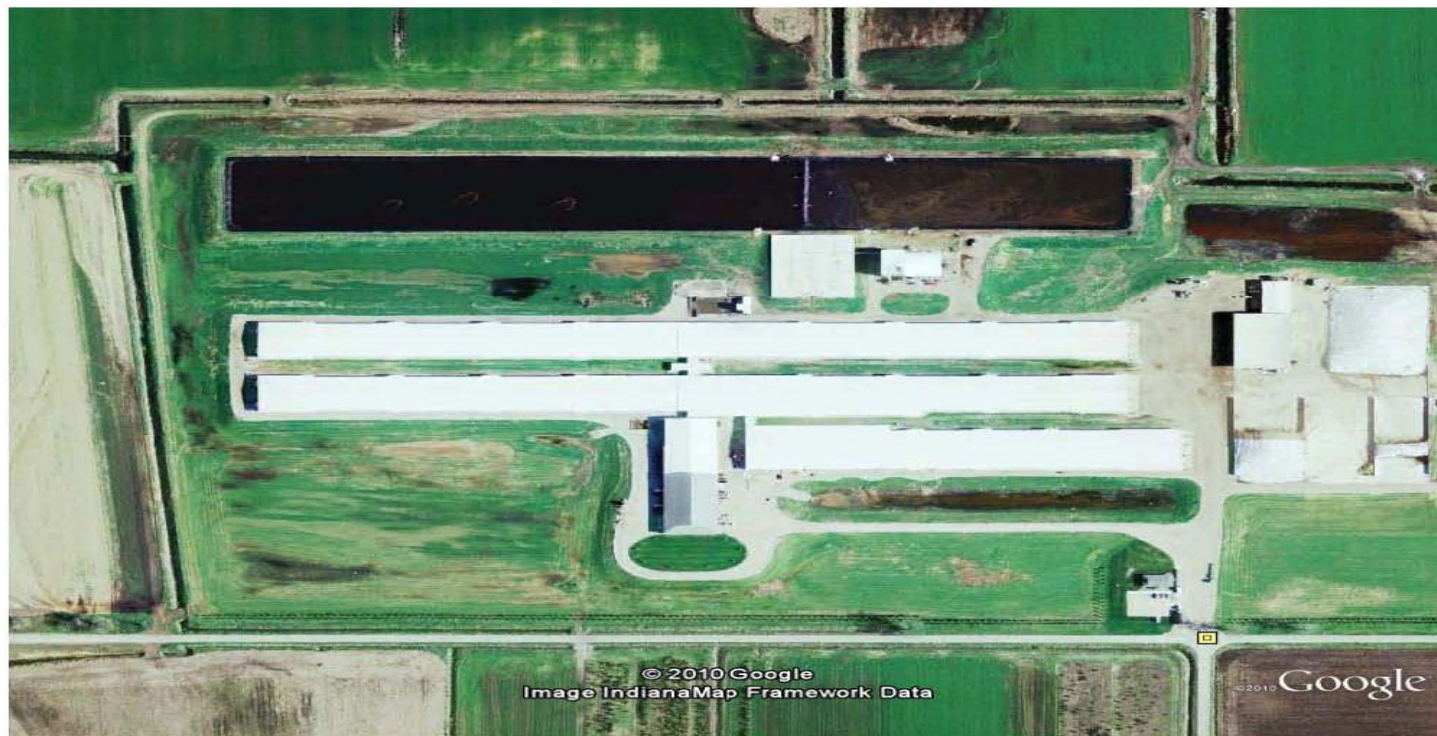
7 digesters for 34,000 cattle in IN

1 digester permitted for 4,000 cows in KY

Additional Off-Site Digester Feedstocks







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Image IndianaMap Framework Data

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Stirring Sand And Manure



Manure Bedding from Digester



Digester







Digester Reception Pit







Pump And Screen



Irrigating Manure



Drop Hoses on Irrigator





Hose Three Mile Distance



Manure Injection Hose Pull



Test Well For Water Sampling



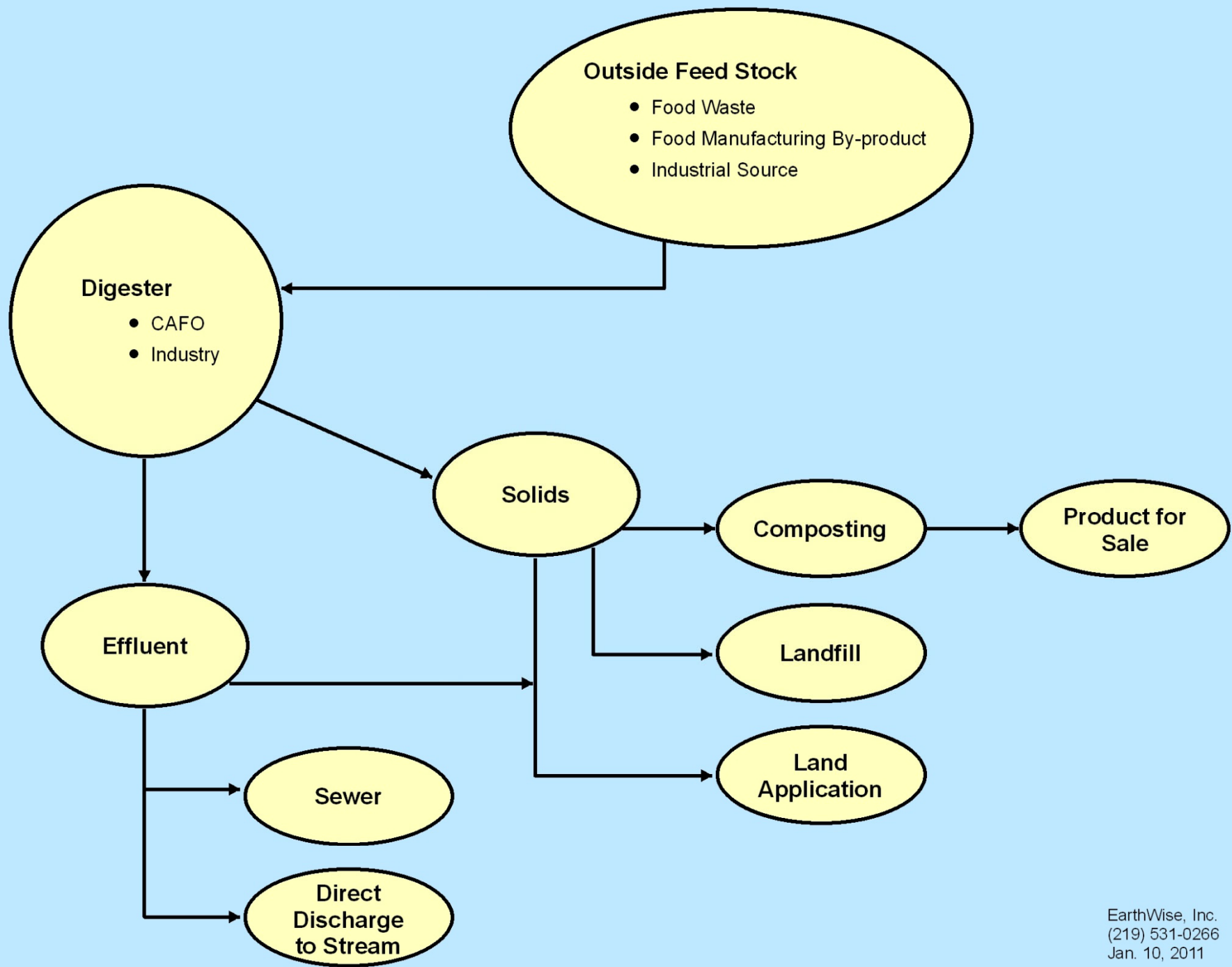
Reverse Slope To Ditches

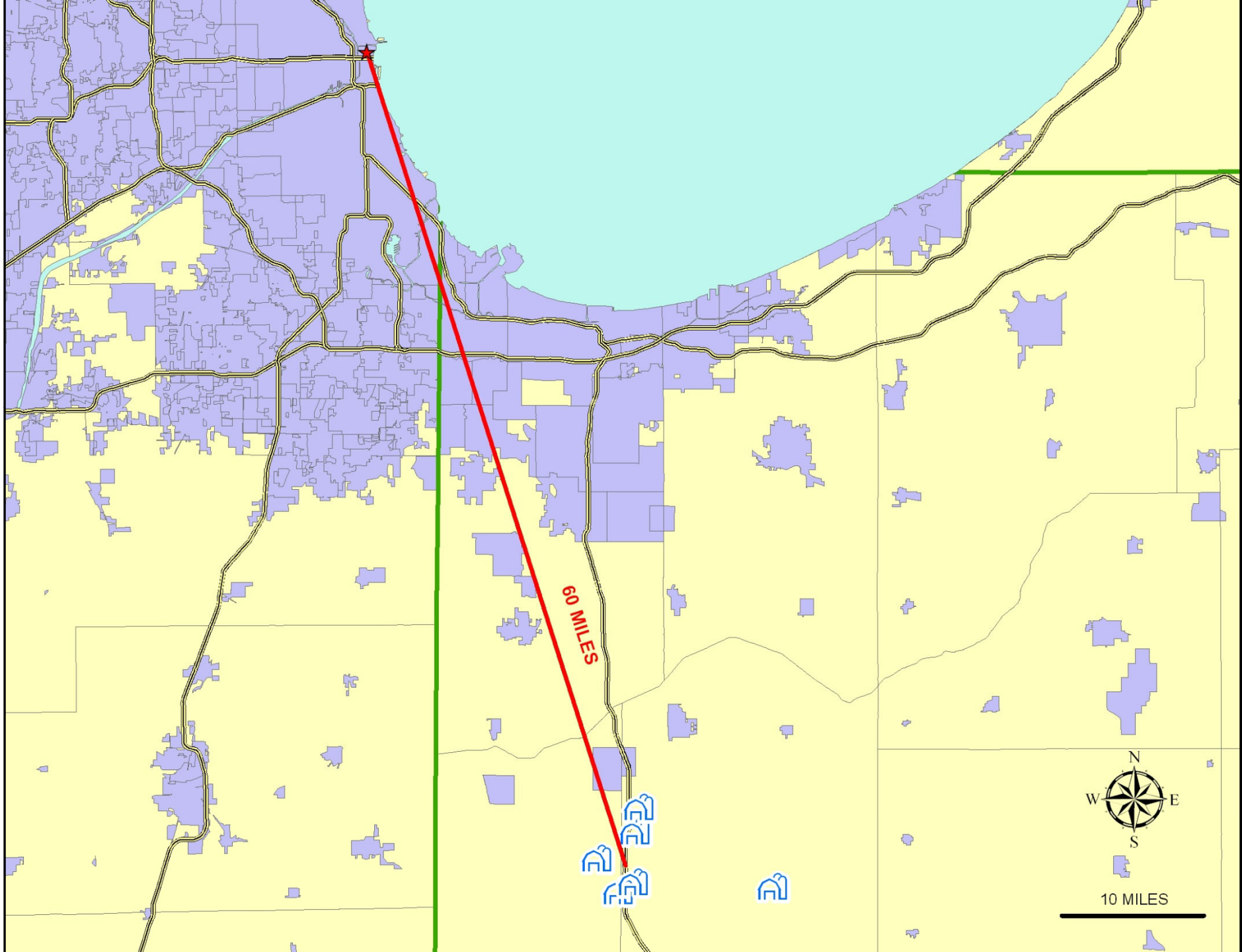


Storage For Bedding









- Why digest manure? Why digest industrial by-products?
- What is the most important information a farm or business needs to know before considering an anaerobic digestion system?
- What do farms need to know about talking to their local energy provider?
- What can a farm owner expect as far as a time commitment to operating and maintaining a system?
- What has been your experience working in Indiana and especially with IDEM on these projects?

- Does IDEM support these kinds of systems over conventional lagoon and land application of wastes?
- What are the advantages and disadvantages of this type of system as an alternative to conventional lagoon and land application based management strategies?
- What are some of the regulatory drivers in Indiana that have farms looking into these systems?
- It appears the data suggests that it is best suited for larger farms. Are there systems suited for smaller farms interested in waste to energy using anaerobic digestion?

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